

Claim Listing

This listing of claims will replace all prior versions, and listings, of claims in the present application.

1. (Previously presented) A method for eliciting a compound having therapeutic activity from a plant or plant part, comprising the steps of:
 - a) contacting a living, intact plant or plant part with an amount of acetic acid effective to induce the production of the compound from the plant or plant part; and
 - b) recovering the compound from the plant or plant part into an aqueous medium.
2. (Previously presented) The method of claim 1, wherein the plant or plant part is contacted with acetic acid in a concentration of about 0.1% (v/v) acetic acid.
3. (Previously presented) The method of claim 1, wherein the compound is recovered from an extract or exudate of the plant or plant part into the aqueous medium.
4. (Previously presented) The method of claim 1, wherein the aqueous medium is water.
5. (Canceled)
6. (Previously presented) The method of claim 3, wherein the extracting further comprises macerating the plant or plant parts in an aqueous medium.
7. (Original) The method of claim 1, wherein the plant part is a plant root.
8. (Original) The method of claim 1, wherein the therapeutic activity is selected from the group consisting of anti-microbial activity and anti-cancer activity.
9. (Original) The method of claim 8 wherein the anti-microbial activity is selected from the group consisting of anti-bacterial activity and anti-fungal activity.
10. (Original) The method of claim 1, further comprising providing a chemical library of compounds recovered from the aqueous medium in an amount sufficient to assay from biological activity.

11. (Original) The method of claim 1, wherein the step of extracting the compounds comprises removing cuticular material located on the surface of a leaf by contacting the leaf surface with a solvent.
12. (Previously presented) The method of claim 1, wherein the aqueous medium is a liquid medium or an agar medium.
13. (Original) The method of claim 11, wherein the cuticular material is selected from the group consisting of lipid, wax, cutin, protein, primary metabolite and secondary metabolite.
14. (Original) The method of claim 13, wherein the cuticular material is a wax.
15. (Original) The method of claim 11, wherein the solvent is an organic solvent.
16. (Original) The method of claim 15, wherein the organic solvent is selected from the group consisting of methylene chloride and chloroform.
17. (Previously presented) The method of claim 11, further comprising assaying the solvent for therapeutic activity.
18. (Previously presented) The method of claim 17, further comprising analyzing the solvent to identify an agent which has the therapeutic activity.
19. (Original) The method of claim 17, wherein the therapeutic activity is selected from the group consisting of anti-microbial activity and anti-cancer activity.
20. (Previously presented) The method of claim 19, wherein the anti-microbial activity is selected from the group consisting of anti-bacterial activity and anti-fungal activity.
21. (Previously presented) The method of claim 17, wherein the step of assaying the solvent further comprises contacting the solvent with a medium containing a living microorganism and determining the rate of growth of the microorganism, whereby an inhibition of the growth of the microorganism is indicative of a compound or component in the solvent having therapeutic activity.
22. (Previously presented) The process of claim 1, wherein the plant or plant part is obtained from a plant of a species selected from the group consisting of *Atropa belladonna*, *Erythrina flabelliformis*, *Ipomoea tricolor*, *Erythrina crista*, *Celosia cristata*, *Gallium spurium*, *Laurus nobilis*, *Vitis labrusca*, *Gratiola officinalis*, *Symphitum officinalis*, *Hosta*

fortuna, *Cassia hebecarpa*, *Thalictrum flavum*, *Scutellaria altissima*, *Portulacca oleracea*,
Scutellaria certicola, *Physalis cretica*, *Geum fauriei*, *Gentiana tibetica*, *Linum hirsutum*,
Aconitum napellus, *Podophyllum emodii*, *Thymus cretaceus*, *Hosta fortunei*, *Carlina*
acaulis, *Chamaechrista fasciculata*, *Pinus pinea*, *Pegamum hamalis*, *Amarindus indica*, *Carica*
papaya, *Cistus incanus*, *Capparis spinosa inermis*, *Cupressus lusitanica*, *Diopis kaka*,
Eryngium campestre, *Aesculus woerlitzenis*, *Aesculus hippocastanum*, *Cupressus*
sempervirens, *Celitis occidentalis*, *Polygonum cuspidatum*, *Elaeagnus angustifolia*,
Elaeagnus commutata, *Gentiana macrophylla*, *Brassica rapa*, *Sesbania exaltata*, *Sesbania*
speciosa, *Spartina potentiflora*, *Brassica juncea*, *Helianthus annuus*, *Poinsettia*, *Pelargonium*
zonale, *Leontopodium alpinum*, *Lupinus luteus*, *Buxus microphylla*, *Liatris spicata*, *Primula*
japonica, *Betula nigra*, *Filipendula vulgaria*, *Lobelia siphilitica*, *Grevillea robusta*, *Reseda*
luteola, *Gentiana littoralis*, *Campanula carpatica*, *Ageratum conyzoides*, *Psidium guajava*,
Ailanthus altissima, *Buxus microphylla japonica*, *Hydrocotyle asiatica*, *Grevillea robusta*,
Brugmansia suaveolens, *Thymus pulegioides*, *Thymus lema-barona*, *Gaultheria procumbens*,
Thymus serpyllum, *Thymus carnosus*, *Thymus thracicus*, *Calycanthus floridus*, *Zingiber*
officinale, *Lamium dulce*, *Thymus praecox arvensis*, *Thymus pulegioides*, *Thymus*
speciosa, *Thymus pseudolamginosus*, *Thymus vulgaris*, *Ficus religiosa*, *Forsythia suspensa*,
Chelidonium majus, *Thymus woolly*, *Thymus portugalense*, *Nicotiana tabacum*, *Thymus*
erythrorhizus aureus, *Cactus officinalis*, *Lablab purpurea*, *Juglans regia*, *Actinidia chinensis*,
Hemerocallis, *Betula pendula*, *Gardenia jasminoides*, *Taxodium distichum*, *Magnolia*
loebneri, *Crataegus praegophyllum*, *Larix decidua*, *Thuja occidentalis*, *Thuja orientalis*,
Cupressocyparis leylandii, *Pseudotsuga menziesii*, *Abies firma*, *Parthenocissus quinquefolia*,
Allium cernuum, *Juniperus conferta*, *Taraxacum officinale*, *Yucca*, *Ilex aquifolium*, *Tsuga*
canadensis, *Ilex cornuta*, *Taxus hicksii*, *Taxus media*, *Metasequoia glyptostroboides*,
Pinus bungeana, *Buxus sempervirens*, *Stewartia koreana*, *Prunus*, *Betula dahurica*, *Plantago*
minor, *Acer palmatum*, *Acer campestre*, *Cotinus coggygria*, *Quercus robur*, *Acer truncatum*,
Achyranthes bidentata, *Allium japonicum*, *Carum capsicum*, *Agastache mexicana*, *Prunella*
vulgaris, *Tagetes minuta*, *Nepeta cataria*, *Ratibida columnifera*, *Aster-Nova anglicae*,
Myrica cerifera, *Pittosporum tobira*, *Taxodium distichum*, *Plantago major*, *Pinus sylvestris*,
Acorus canadensis, *Pieris japonica*, *Pinus strobus*, *Trifolium pratense*, *Prunus serotica*,
Datura stramonium, *Geranium maculatum*, *Taxodium distichum*, *Astragalus sinicus*, *Centaurea*
maculata, *Ruschia indurata*, *Myrrhus communis*, *Platanus occidentalis*, *Lycium barbarum*,
Lavandula officinalis, *Grevillea robusta*, *Hippophaë rhamnoides*, *Filipendula ulmaria*,
Polygonum odoratum, *Brugmansia graveolens*, *Rhus toxicodonta*, *Armoracia rusticana*,

Ficus benjaminii, *Sluffera*, *Pelagonium zonale*, *Allium*, *Asimina trilobla*, *Lippa dulcis*,
Epilobium agustifuolium, *Brugmansia suavecolens*, *Xanthosoma sagittifolium*, *Monstera*
deliciosa, *Aglaonema commutatus*, *Dieffenbachia leopoldii*, *Anthurium andreanum*,
Syngonium podophyllum, *Dracaena fragrans*, *Ananas comosus*, *Strelitzia reglinae*,
Diffenbachia segiunae, *Syngonium aurutum*, *Dracaena*, *haemanthus katharina*, *Anthurium*
altersianum, *Spathiphyllum grandiflorum*, *Spathiphyllum cochlearispatum*, *Monstera pertusa*,
Anthurium magnificum, *Anthurium hookeri*, *Anthurium elegans*, *Calathea zebrine*, *Yucca*
elephantipes, *Bromelia balansae*, *Musa textiles*, *Myrthus communis*, *Olea olcaster*, *Olea*
europaea, *Verium oleander*, *Cocculus laurifolius*, *Microsorium punctatum*, *Ficus*,
Senseviera, *Adansonia digitata*, *Boechimeria boloba*, *Piper nigrum*, *Phymatosorus*
scolpendria, *Turnera ulmifolia*, *Nicodemia diversifolia*, *Tapeinochilos spectabilis*, *Rauwolfia*
tetraphylla, *Ficus elastica*, *Cycas cirinalis*, *Caryota ureus*, *Cynnamonum zeylonicum*,
Aechmea luddemoniana, *Foenix seulongica*, *Ficus benjamina*, *Ficus pumila*, *Murraya exotica*,
Trevesia sungaica, *Clerodendrum speciosissimum*, *Actinidi colonicta*, *Paeonia lactiflora*,
Paeonia suffructicisa, *Quercus imbricaria*, *Iris alida*, *Portulacca olleracea*, *Poligonum*
aviculare, *Iris pseudocarpus*, *Allium nutans*, *Allium fistulosum*, *Antericum ramosum*,
Veratrum nigrum, *Polygonum latifolia*, *Hosta lancefolia*, *Hosta zibalda*, *Echinops spuae*,
Paeonia dahurica, *Inula hilenium*, *Trambe pontica*, *Digitalis lutea*, *Bactisia australis*,
Austolachia australis, *Hissopus zeraucharicus*, *Feucium ham. edris*, *Sedum album*,
Heraclelum pubescens, *Origanum vulgare*, *Cachris alpina*, *Haser trilobum*, *Matteuccia*
struthiopteris, *Sedum telchium*, *Bocconia cordata*, *Ajuga reptans*, *Thalictrum minus*,
Anemona japonica, *Clematis rectae*, *Thalictrum*, *Alchemilla*, *Potentilla alba*, *Poterium*
sangiusorba, *Menispermum dauricum*, *Oxybaphus nyctagineus*, *Armoracea rusticana*,
Crambe cordifolia, *Arimonia eupatora*, *Anchusa officinalis*, *Plymonium ceruleum*, *Valeriana*
officinalis, *Pulmonaria molissima*, *Stachys lanata*, *Coronilla varia*, *Platycarya grandiflora*,
Lavandula officinalis, *Vincetoxicum officinale*, *Acalypha hispida*, *Gnetum gnemon*,
Psychotria nigropunctata, *Psychotria metbacteriodomasica*, *Codiaeum variegatum*,
Phyllanthus grandifolius, *Pterigota alata*, *Pacyra affinis*, *Sterculia elata*, *Philodendron*
speciosum, *Pithecellobium unguis-cati*, *Sanchezia nobilis*, *Oreopanax capitatus*,
Ficustriangularis, *Kigelia pinnata*, *Piper cubeba*, *Laurus nobilis*, *Erythrina caffra*,
Metrosideros excelsa, *Osmanthus fragrans*, *Cupressus sempervirens*, *Jacobinia*, *Senecio*
platyphylloides, *Livistona chinensis*, *Tetraclinis articulate*, *Eucalyptus rudis*, *Podocarpus*
spinulosus, *Eriobotrya japonica*, *Gingko biloba*, *Rhododendron*, *Fagopyrum suffruticosum*,
Geum macrophyllum, *Magnolia kobus*, *Vinca minor*, *Convallaria majalis*, *Corylus avellana*,

Berberis, Rosa multiflora, Ostrya carpinifolia, Ostrya connogea, Quercus rubra, Liriodendron tulipifera, Sorbus aucuparia, Betula nigra, Castanea sativa, Bergenia crassifolia, Artemisia dracunculus, Ruta graveolens, Quercus nigra, Schisandra chinensis, Betula alba, Sambucus nigra, Gentiana cruciata, Encephalartos horridus, Phlebodium aureum, Microlepia platyphylla, Ceratozamia mexicana, Stenochlaena tenuifolia, Adiantum trapeziforme, Adiantum raddianum, Lygodium japonicum, Pessopteris crassifolia, Asplenium australasicum, Agathis robusta, Osmunda regalis, Osumdastrum claytonianum, Phyllitis scolopendrium, Polystichum braunii, Crtomium fortunei, Dryopteris filix-mas, Equisetum variegatum, Athyrium nipponicum, Athyrium filix-femina, Parthenocissus tricuspidata, Ligusticum vulgare, Chamaeciparis pisifera, Rosa canina, Cotinus coggygria, Pinus strobes, Celtis occidentalis, Picca schrenkiana, Cydonia oblonga, Ulmus pumila, Euonymus verrucosus, Deutzia scabra, Mespilus germanica, Quercus castaneifolia, Euonymus europea, Securinega suffruticosa, Koelreuteria paniculata, Syringa josikaea, Zelkova carpinifolia, Abies cephalonica, Taxus baccata, Taxus cuspidate, Salix babylonica, Actinidia colomicta, Mahonia aquifolium, Aralia mandschurica, Juglans nigra, Euonymus elata, Prinsepia sinensis, Forsythia europaea, Sorbocotoneaster pozdnjakovii, Morus alba, Crataegus macrophyllum, Eucommia ulmifolia, Sorbus commixta, Philodendron amurense, Cornus mas, Kerria japonica, Parrotia persica, Jasminum fruticans, Swida sanguinea, Pentaphylloides fruticosa, Sibiraea altaiensis, Cerasus japonica, Kolkwitzia amabilis, Amigdalus nana, Acer mandschurica, Salix tamarisfilia, Amelanchier spicata, Cerasus mahaleb, Prunus cerasifera, Corylus avellana, Acer tataricum, Viburnum opulus, Syringa vulgaris, Fraxinus excelsior, Quercus trojana, Chaenomelis superba, Pinus salinifolia, Berberis vulgaris, Cotoneaster horisontalis, Cotoneaster fangianus, Fagus sylvatica, Pinus pumila, Pinus sylvestris and Berberis thunbergii.

23. (Previously presented) A method of preparing a composition having therapeutic activity, comprising the steps of:

(a) contacting a living, intact plant or plant part with an amount of acetic acid effective to induce the production of a compound or component having therapeutic activity from the plant or plant part; and

b) collecting the composition comprising the compound or component.

24. (Original) The method of claim 23, wherein the composition is collected by macerating the plant or plant parts in an aqueous medium.

25. (Original) The method of claim 23, wherein the composition is collected by contacting a surface of the plant or plant parts with a solvent suitable for removing cuticular or epicuticular material.
26. (Previously presented) The method of claim 23, wherein the amount of acetic acid is about 0.1% (v/v) acetic acid.